

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-011368**Date Inspected:** 09-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Li Yang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG Segment**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Dan Hernandez was present during the times noted above to observe the fit up, welding and related activities associated with the fabrication of the San Francisco Oakland Bay Self Anchored Suspension Bridge at Zhenhua Port Machinery Company (ZPMC) facility on Changxing Island.

OBG Trial Assembly Yard

Segment 7AE

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of Complete Joint Penetration (CJP) weld joint. The Weld joint is designated as SEG034A-007. The welder is identified as #220066 and was observed welding in the 1G (flat) position using approved Welding Procedure Specification WPS-345-FCAW-1G (1F)-repair-1 for WR9674.

BK1-018

This QA Inspector observed Shielded Metal Arc Welding (SMAW) in progress of Complete Joint Penetration (CJP) weld joint. The Weld joint is designated as BK001-018-005. The welder is identified as #066456 and was observed welding in the 3G (vertical) position using approved Welding Procedure Specification WPS-B-P-2213-TC-U4b-FCM-1.

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BK1-021

This QA Inspector observed Shielded Metal Arc Welding (SMAW) in progress of Complete Joint Penetration (CJP) weld joint. The Weld joint is designated as BK001-021-005, 007. The welder is identified as #066456 and was observed welding in the 3G (vertical) position using approved Welding Procedure Specification WPS-B-P-2213-TC-U4b-FCM-1.

Segment 6BW/6CW

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of Complete Joint Penetration (CJP) weld joint. The Weld joint is designated as SP095-001-043 thru 049. The welder is identified as #051246 and was observed welding in the 3G (vertical) position using approved Welding Procedure Specification WPS-B-T-2233-B-U2-F.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of Complete Joint Penetration (CJP) weld joint. The Weld joint is designated as SP095-001-043 thru 049. The welder is identified as #051246 and was observed welding in the 3G (vertical) position using approved Welding Procedure Specification WPS-B-T-2233-B-U2-F.

Segment 6BW

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress fillet weld joint. The Weld joint is designated as SP515-001-025 thru 036. The welder is identified as #220067 and was observed welding in the 2F (horizontal) position using approved Welding Procedure Specification WPS-B-T-2132.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress fillet weld joint. The Weld joint is designated as SP475-001-029 thru 042. The welder is identified as #220067 and was observed welding in the 2F (horizontal) position using approved Welding Procedure Specification WPS-B-T-2132.

Segment 6AE

This QA Inspector observed drilling of bolt hole in the Edge Plate for connection of the suspender bracket.

ZPMC Quality Control (QC) Inspector is identified as Fang Ya Jun. QA Inspector observed QC Inspector verify welding parameters. The welding variables recorded by QC appeared to comply with the Applicable WPS.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

No relevant conversations.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, 150-0042-2372 , who represents the Office of Structural Materials for

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your project.

Inspected By: Hernandez,Dan

Quality Assurance Inspector

Reviewed By: Miller,Mark

QA Reviewer